

FIG. 1

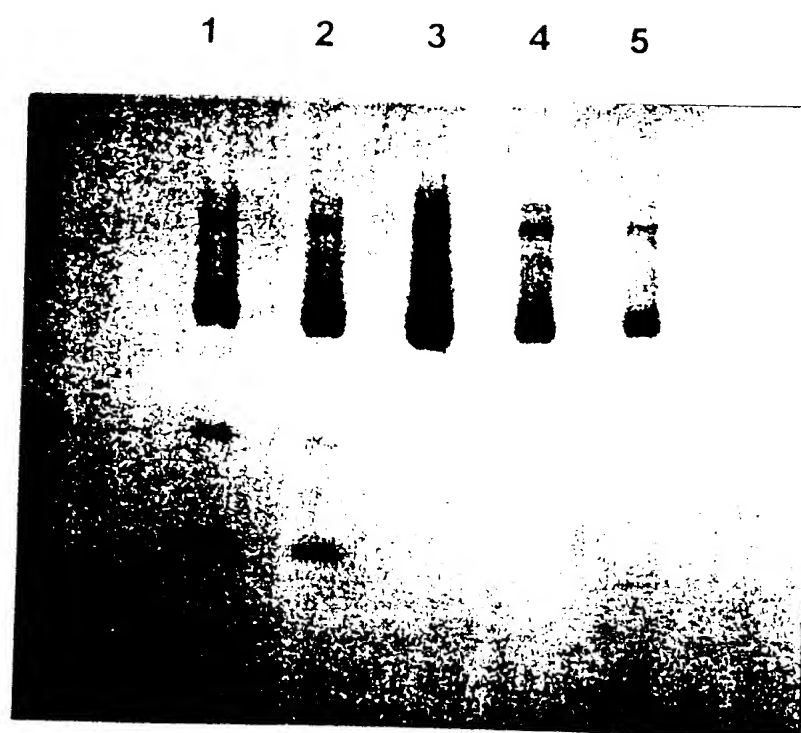


FIG. 2

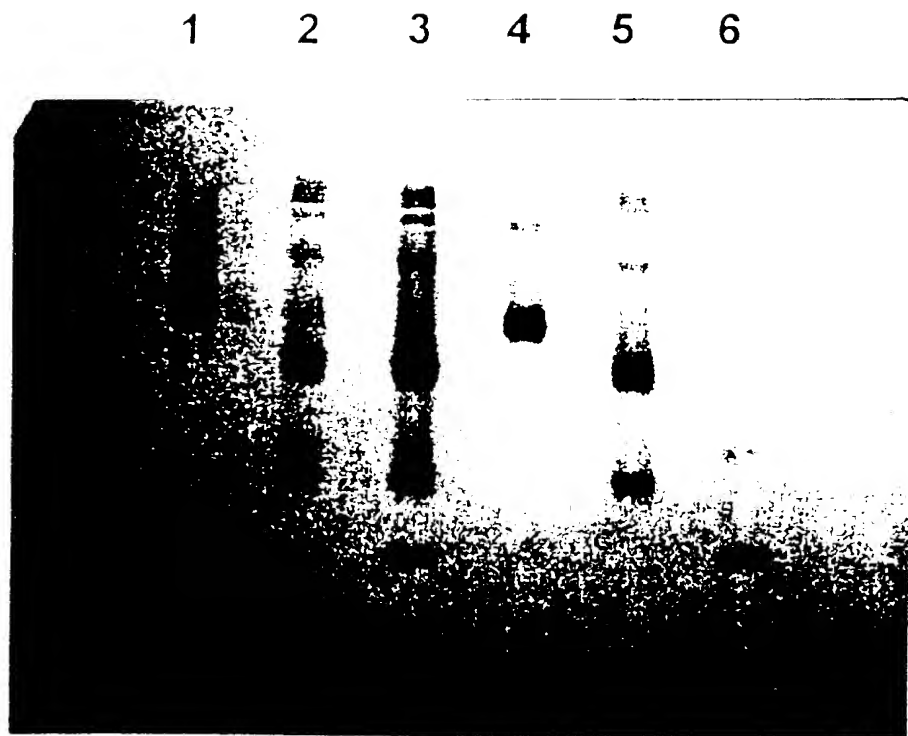


FIG. 3

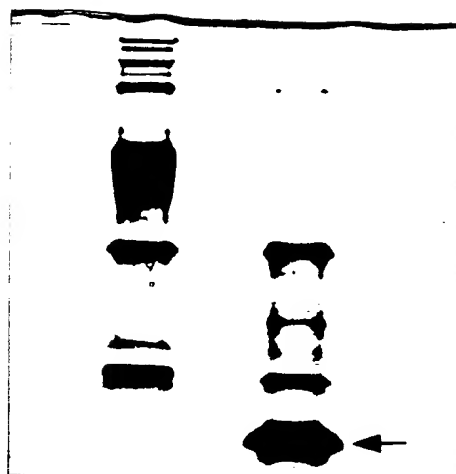


FIG. 4

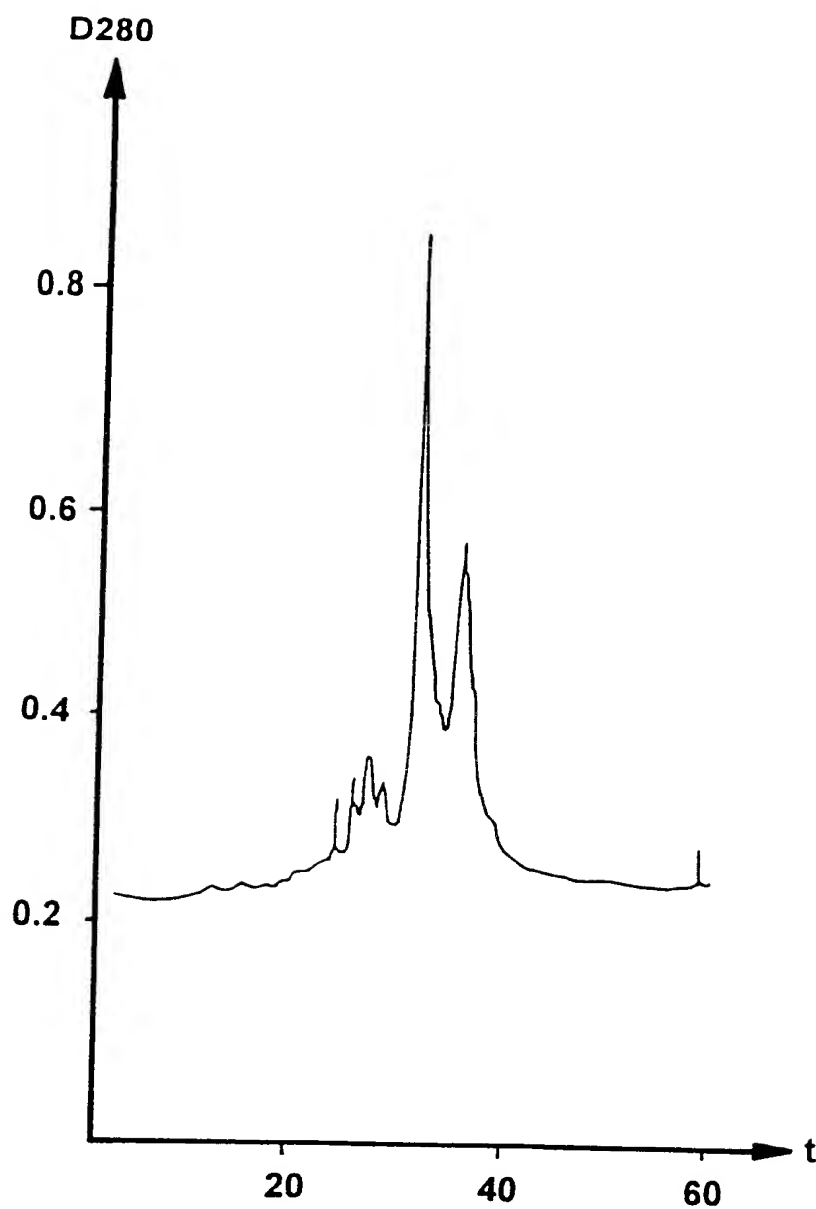


FIG. 5

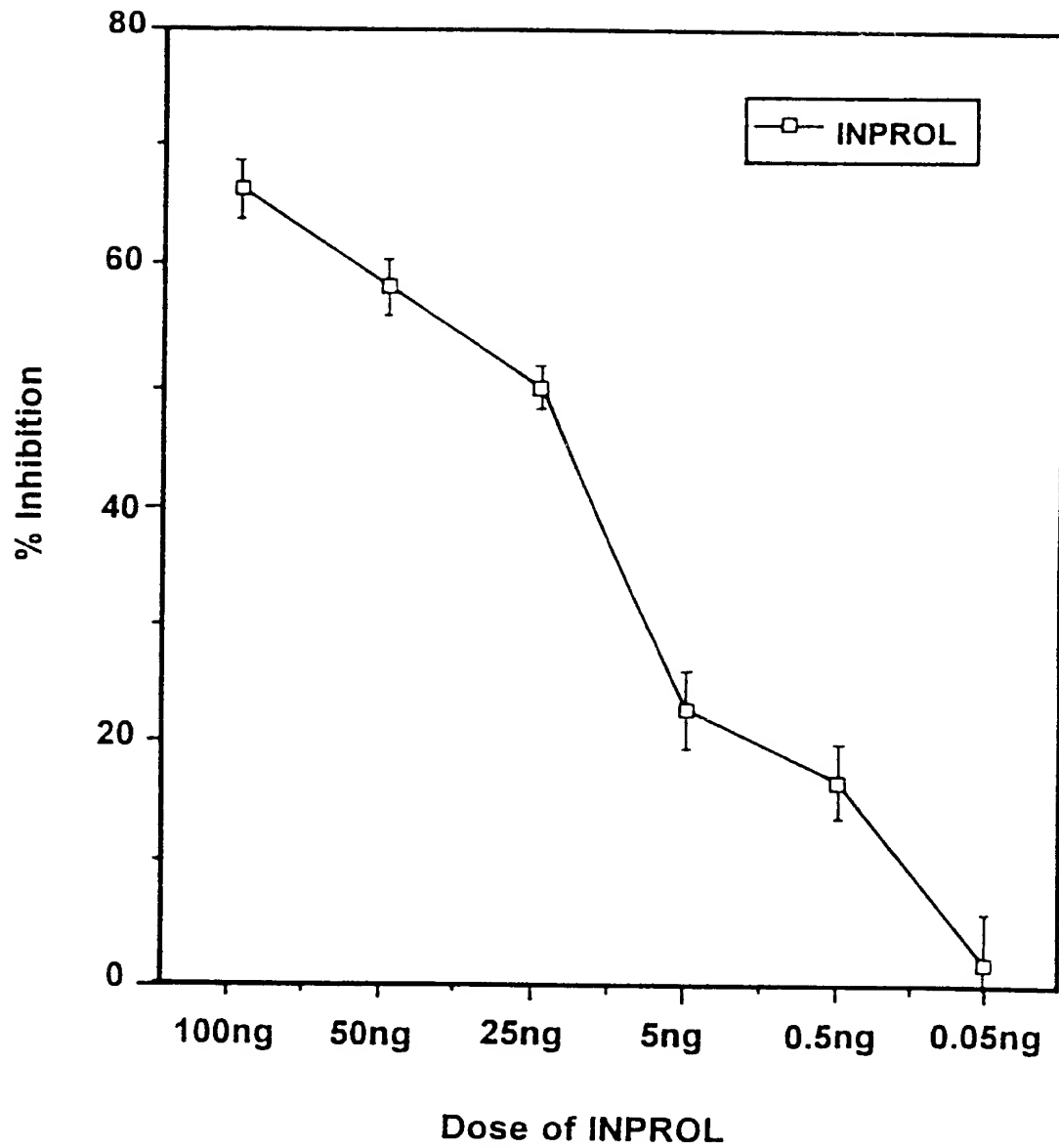


FIG. 6

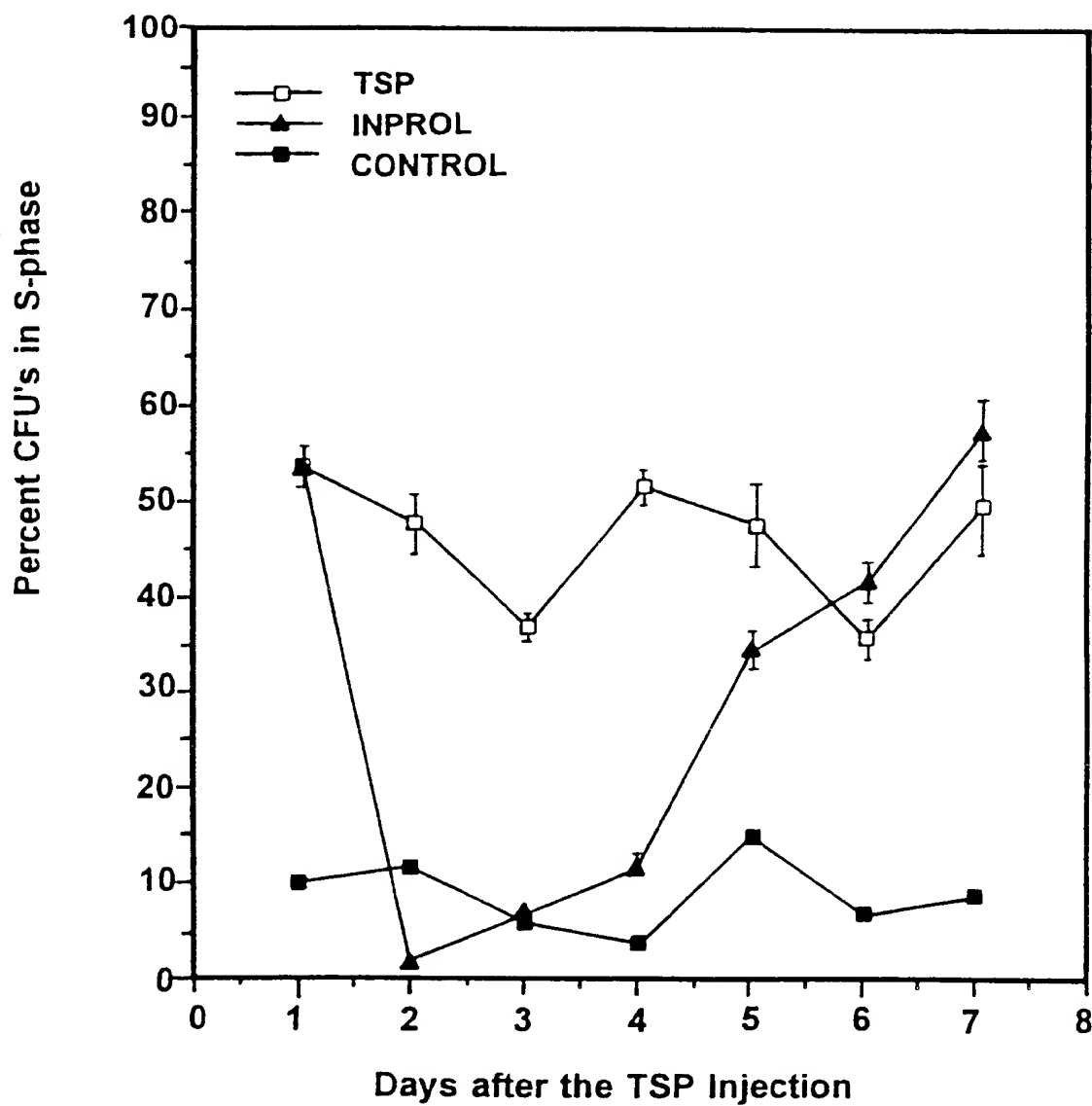
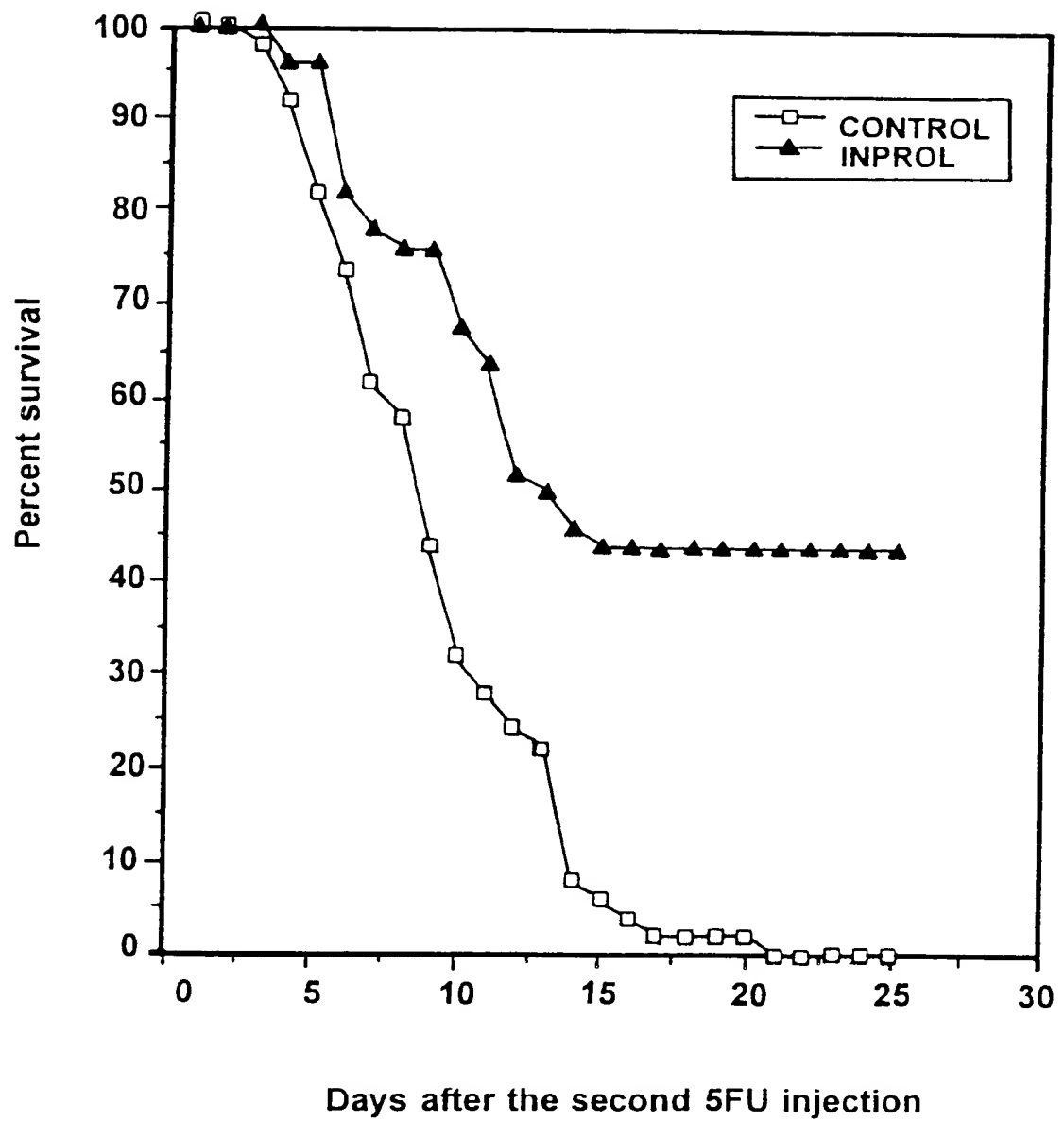


FIG. 7

FIG. 8



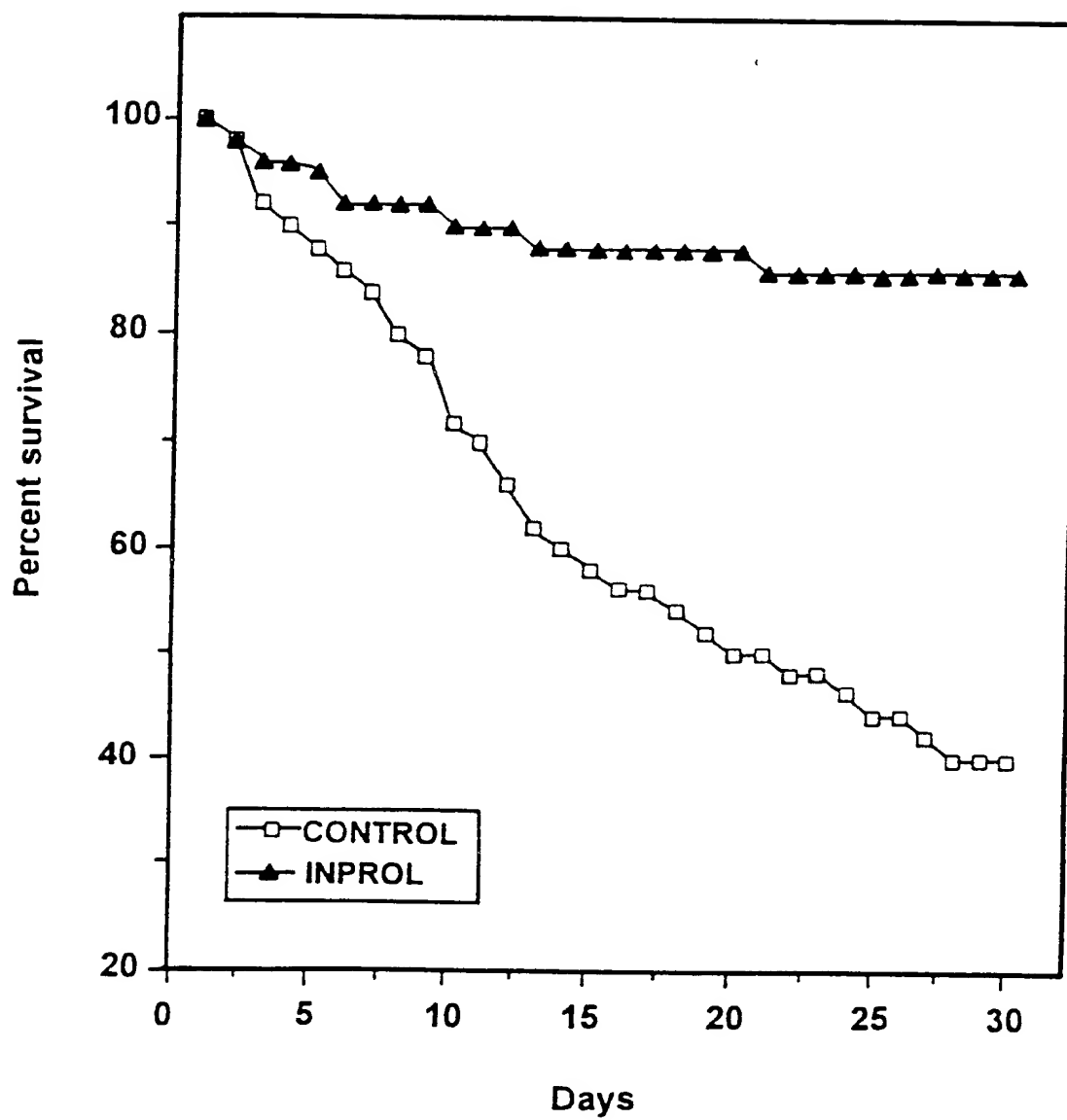


FIG. 9

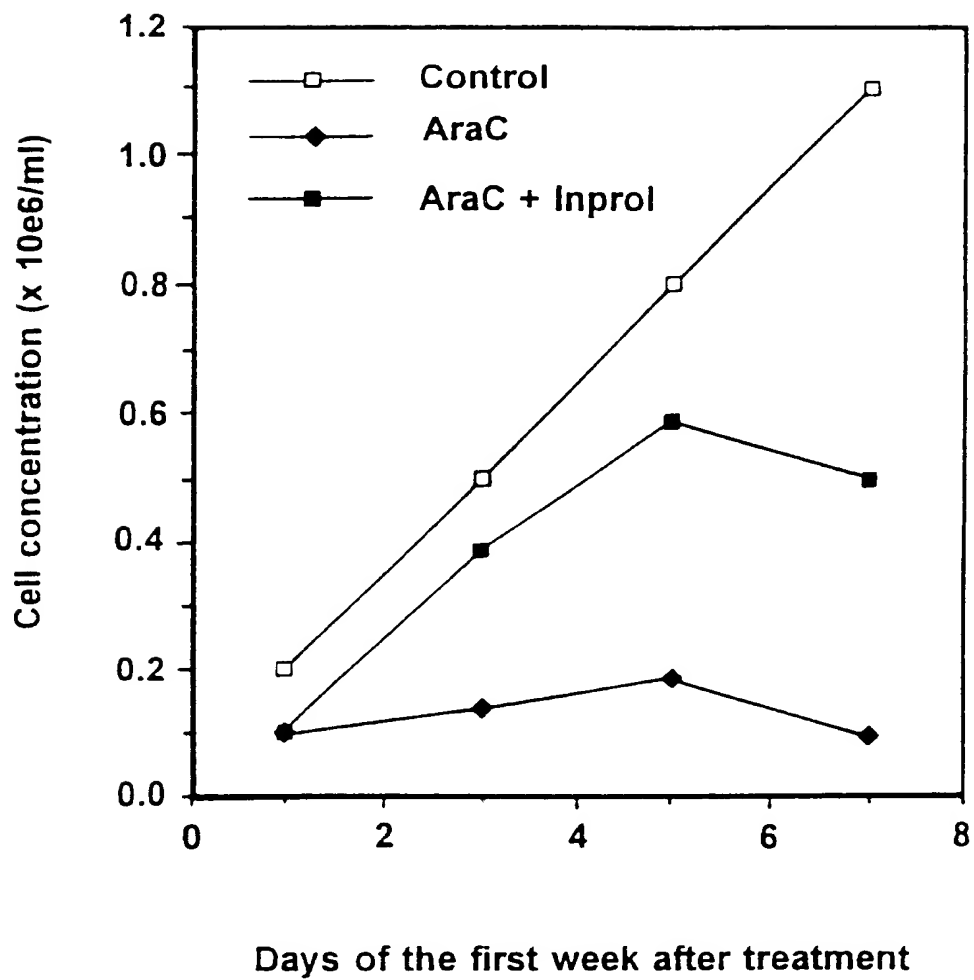


FIG. 10A

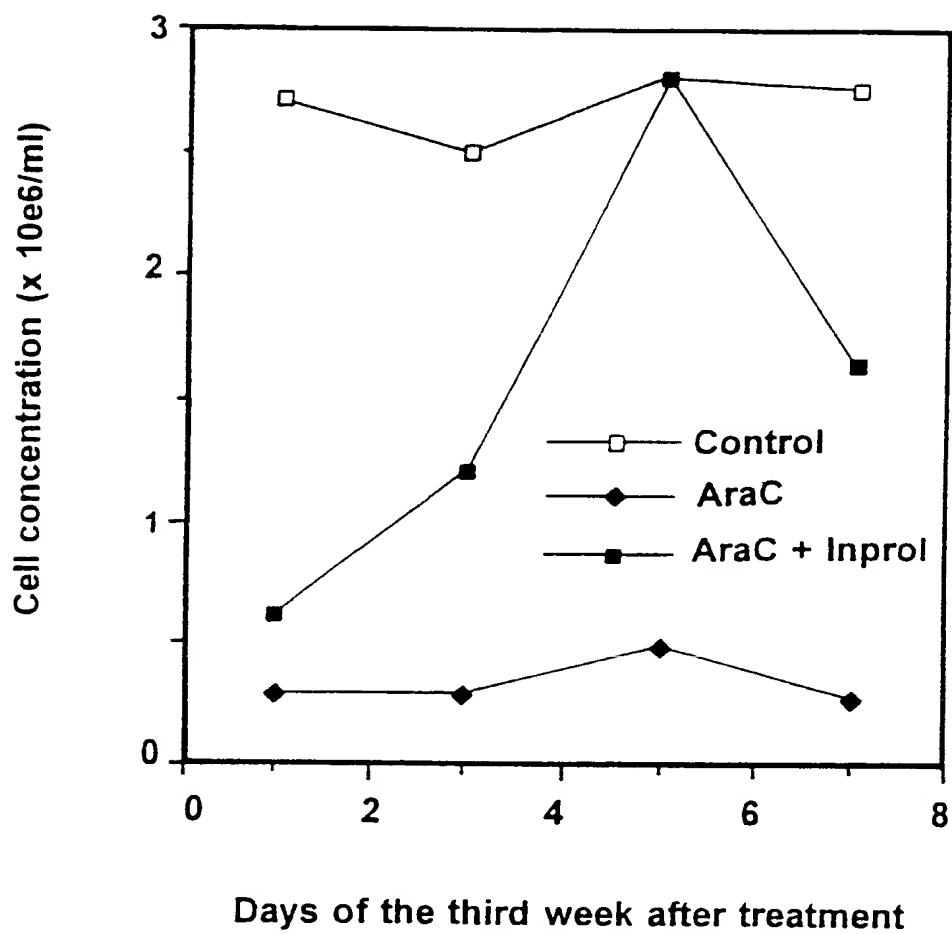


FIG. 10B

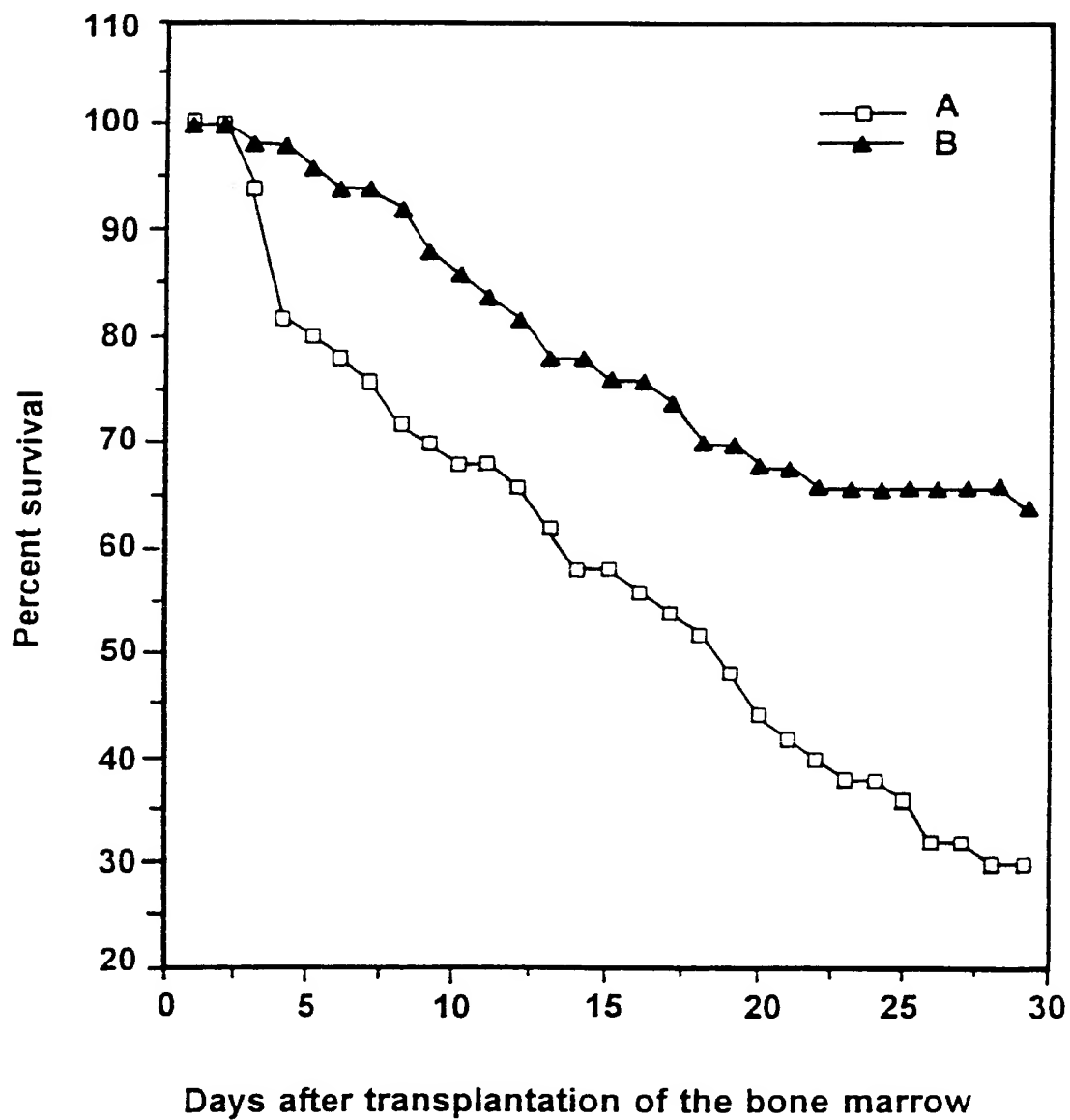


FIG. 11

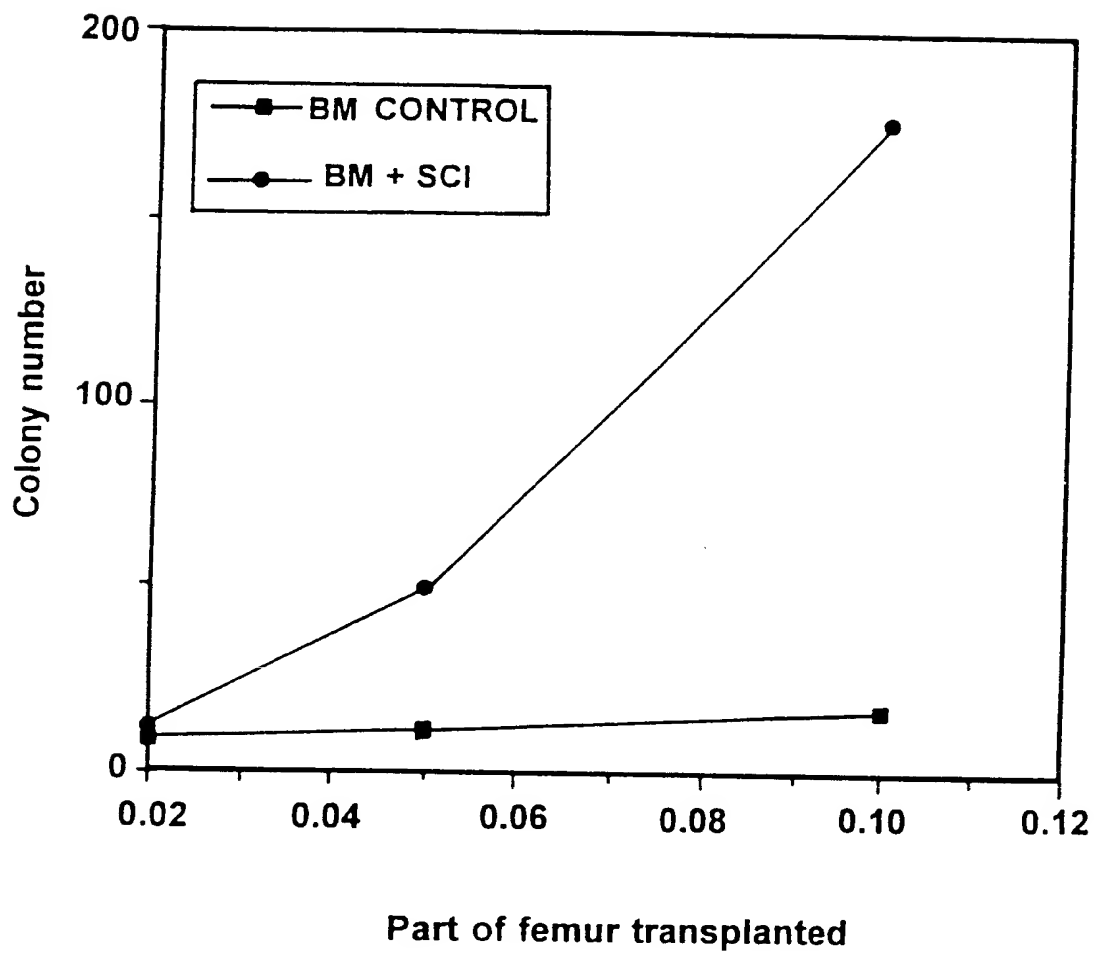


FIG. 12

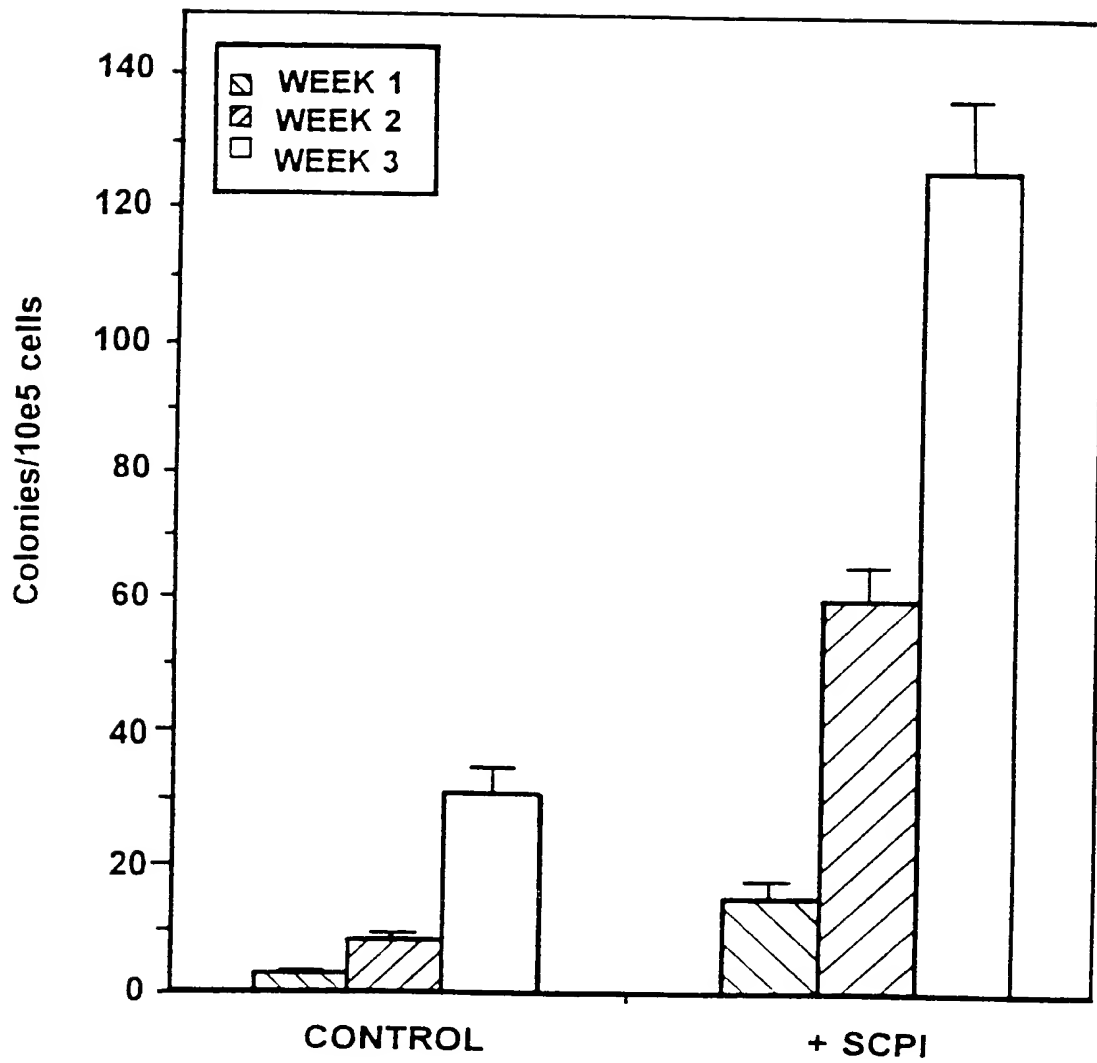


FIG. 13

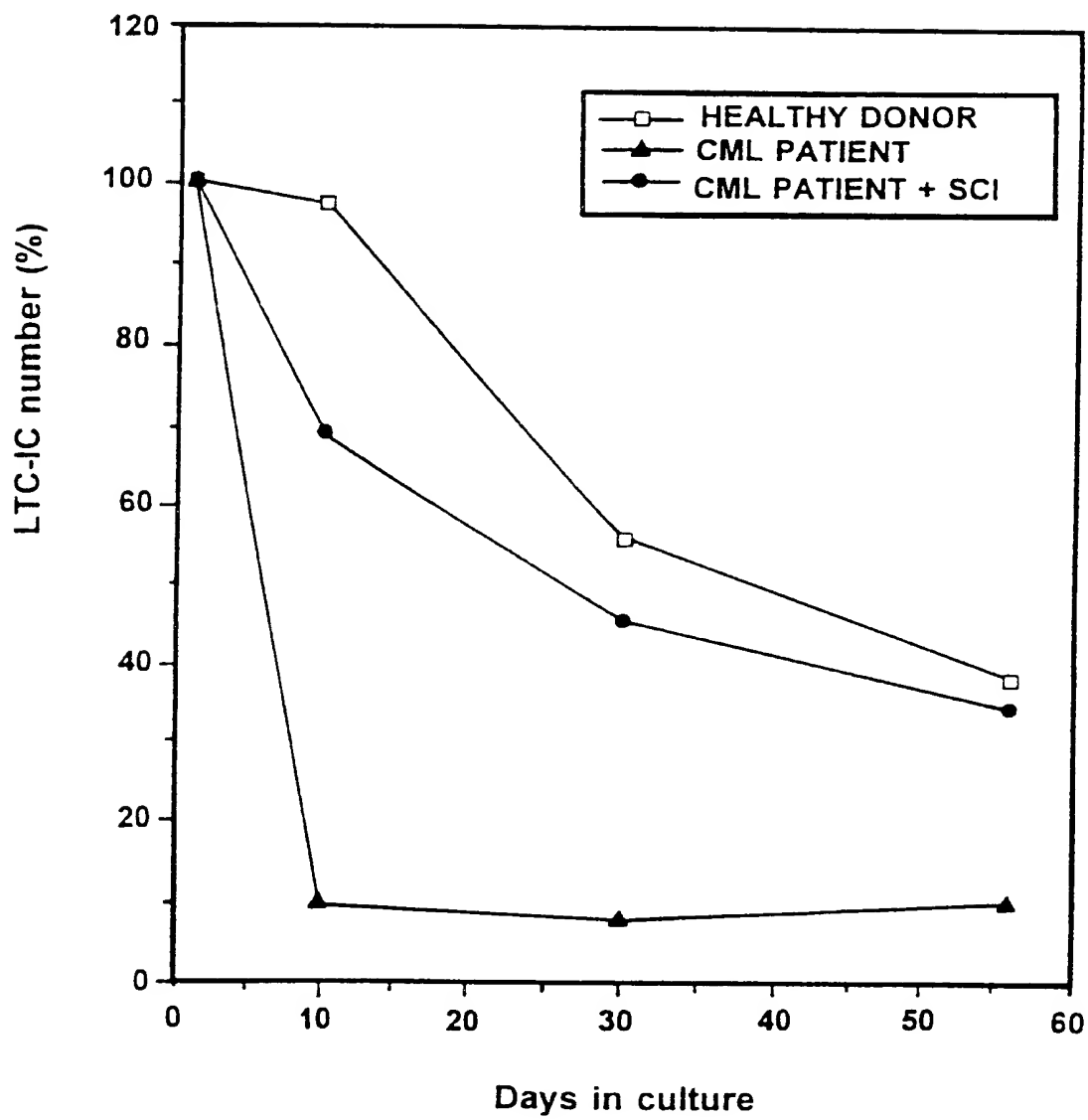
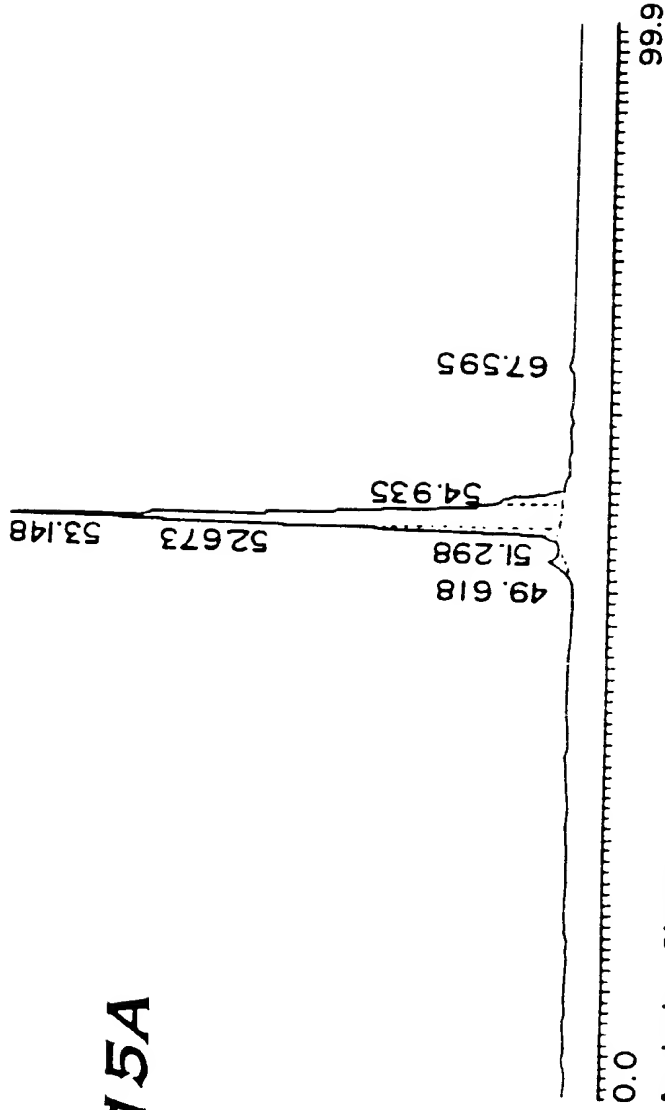


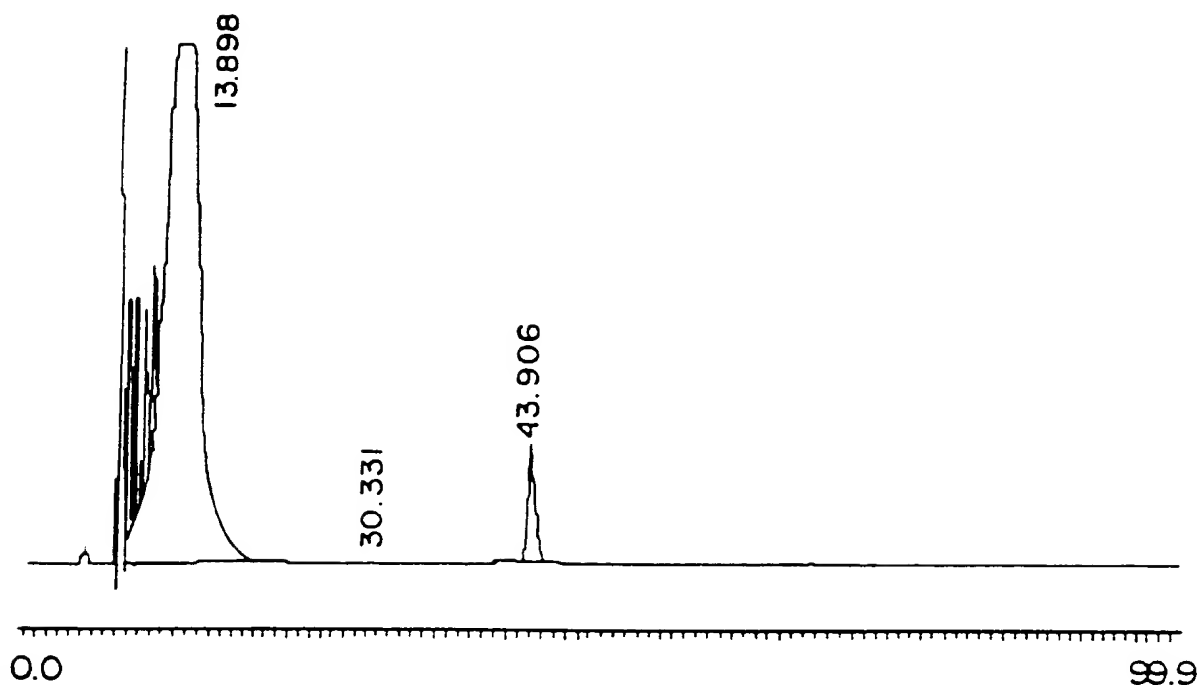
FIG. 14

FIG. 15A



Analysis: Channel A

Peak No.	Time	Type	Height(μ V)	Area(μ V-sec)	Area%
1	3.126	N1	691	7578	0.041
2	3.315	N2	1011	5150	0.027
3	49.618	N	8584	349227	1.893
4	51.298	N	1456	20274	0.109
5	52.673	N1	138069	2633395	14.278
6	53.148	N2	271587	14050458	76.181
	54.935	N3	33016	1332820	7.226
	67.595	N	3270	44507	0.241
TOTAL AREA				18443409	99.996



Analysis: Channel A

Peak No.	Time	Type	Height(μ Y)	Area(μ Y-sec)	Area%
1	4.383	N1	3945	95125	0.119
2	5.080	N2	28639	330889	0.413
3	5.216	N3	49084	531867	0.665
4	7.980	N1	399424	1110511	1.389
5	8.100	Err	1203320	2882013	3.605
6	8.241	N3	443249	1506159	1.884
7	8.386	N4	481563	2185702	2.734
8	8.533	N5	412886	1826165	2.284
9	8.701	N6	321500	842122	1.053
10	8.745	N7	404661	1610380	2.014
11	8.995	N8	435765	2489721	3.114
12	9.316	N9	517790	4801831	6.007

FIG. 15B



FIG. 15C

FIG. 16A

[illegible]

FIG. 16B

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
 Val His Leu Thr Pro Glu Glu Lys Ser Ala Val Thr Ala Leu Trp Gly Lys Val Asn Val
 CIG CAC CTC ACT CCT CAG CAG AAC ICT GCC GTT ACT CCC CIG TGG GGT AAC GIG AAC GIG

 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
 Asp Glu Val Gly Gly Glu Ala Leu Gly Arg Leu Leu Val Val Tyr Pro Trp Thr Gln Arg
 CAT GAA GTT GGT GAG GCC CIG GGC AGG CTG CIG GTC TAC CTT TGG ACC CAG AGG

 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
 Phe Phe Glu Ser Phe Gly Asp Leu Ser Thr Pro Asp Ala Val Met Gly Asn Pro Lys Val
 TTC TTT GAG ICC TTT GCG CAT CIG TCC ACT CCT CAT GCT GTT ATG GGC AAC CTT AAG GIG

 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
 Lys Ala His Gly Lys Lys Val Leu Gly Ala Phe Ser Asp Gly Leu Ala His Leu Asp Asn
 AAG CTT CAT GCC AAG AAA GTG CTC GGT CCC TTT ACT GAT GCC CIG CTT CAC CIG CAC AAC

 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 Leu Lys Gly Thr Phe Ala Thr Leu Ser Glu Leu His Cys Asp Lys Leu His Val Asp Pro
 CIG AAG GCC ACC TTT GCC ACA CIG AGT GAG CIG CAC TGT CAC AAC CIG CAC GIG CAT CTT

 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120
 Glu Asn Phe Arg Leu Leu Gly Asn Val Leu Val Cys Val Leu Ala His His Phe Gly Lys
 GAG AAC TTC AGG CIG CIG GCC AAC GIG CIG GTC TGT GTC CIG GCC CAT CAC TTT GGC AAA

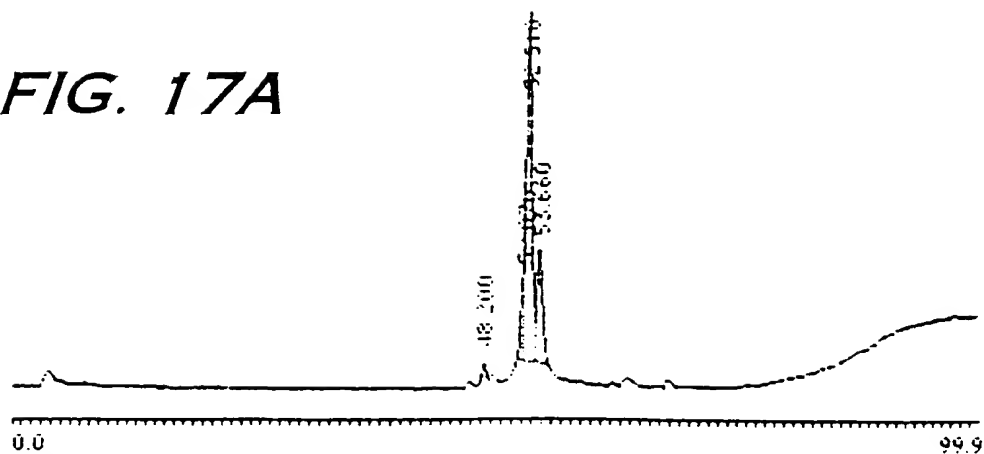
 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140
 Glu Phe Thr Pro Val Gln Ala Ala Tyr Gln Lys Val Val Ala Gly Val Ala Asn Ala
 GAA TTC ACC CCA CCA CIG CAG GCT GCC TAT CAG AAA GIG GIG GCT GGT GIG GCT AAT GCT

 141 142 143 144 145 146
 Leu Ala His Lys Tyr His
 CIG GCC CAC AAG TAT CAC

FIG. 16C

hHemA . pep	1	V	L	S	P	A	D	K	I	N	20	V	K	R	A	G	K	V	G	A	30	H	A	-	G	E	Y	G	A	E	40	L	E	R	M	E	L	S	F	E	50													
hHemB . pep	1	V	H	L	P	E	E	K	S	A	--	V	A	-	I	G	K	V	--	N	V	D	E	V	G	S	E	A	50	L	E	R	M	E	L	S	F	E	50															
mHemA . pep	1	V	L	S	E	D	K	N	I	K	A	R	C	K	I	G	G	H	G	-	A	E	Y	G	A	E	A	50	L	E	R	M	E	L	S	F	E	50																
mHemB . pep	1	V	H	L	D	A	E	K	A	V	E	C	L	G	K	V	I	S	E	-	E	V	G	S	E	A	50	L	E	R	M	E	L	S	F	E	50																	
pHemA . pep	1	V	L	S	P	A	D	K	A	N	V	K	R	A	G	K	V	G	G	Q	-	G	A	H	G	A	E	50	L	E	R	M	E	L	S	F	E	50																
pHemB . pep	1	V	H	L	S	A	E	E	K	S	A	--	V	A	-	I	G	K	V	--	N	V	D	E	V	G	S	E	50	L	E	R	M	E	L	S	F	E	50															
hHemA . pep	51	D	L	S	H	---	G	60	S	A	Q	V	K	A	H	G	K	70	V	A	D	A	L	I	---	80	A	A	H	V	D	D	M	E	N	90	A	L	S	---	A	L	S	D	100									
hHemB . pep	51	D	L	S	P	D	A	V	M	G	---	G	60	N	E	K	V	K	A	H	G	K	V	G	A	---	E	S	70	G	L	A	H	L	D	N	L	K	G	T	F	A	---	T	L	S	E	L	100					
mHemA . pep	51	D	L	S	H	---	G	60	S	A	Q	V	K	A	H	G	K	70	V	A	D	A	L	I	---	80	A	A	H	V	D	D	M	E	N	90	A	L	S	---	A	L	S	D	100									
mHemB . pep	51	D	L	S	S	A	S	A	I	M	G	---	G	60	N	E	K	V	K	A	H	G	K	V	G	A	---	E	S	70	G	L	A	H	L	D	N	L	K	G	T	F	A	---	T	L	S	E	L	100				
pHemA . pep	51	D	L	S	H	---	G	60	S	A	Q	V	K	A	H	G	K	70	V	A	D	A	L	I	---	80	A	A	H	V	D	D	M	E	N	90	A	L	S	---	A	L	S	D	100									
pHemB . pep	51	D	L	S	P	D	A	V	M	G	---	G	60	N	E	K	V	K	A	H	G	K	V	G	A	---	E	S	70	G	L	A	H	L	D	N	L	K	G	T	F	A	---	T	L	S	E	L	100					
hHemA . pep	101	H	A	K	L	R	V	D	P	V	---	110	N	F	K	L	L	S	H	C	L	120	V	T	L	A	A	H	D	P	A	S	130	F	T	P	A	V	I	A	S	L	140	-	K	F	L	A	S	V	S	I	V	150
hHemB . pep	101	H	D	K	L	V	D	P	V	---	110	N	F	R	L	L	G	N	V	L	120	C	V	L	A	H	F	G	E	130	F	T	P	P	V	O	A	A	K	140	-	K	W	A	G	V	A	I	A	150				
mHemA . pep	101	H	A	K	L	R	V	D	P	V	---	110	N	F	K	L	L	S	H	C	L	120	V	T	L	A	A	H	D	P	A	S	130	F	T	P	A	V	I	A	S	L	140	-	K	F	L	A	S	V	S	I	V	150
mHemB . pep	101	H	D	K	L	V	D	P	V	---	110	N	F	R	L	L	G	N	V	L	120	C	V	L	A	H	F	G	E	130	F	T	P	A	V	I	A	S	L	140	-	K	W	A	G	V	A	I	A	150				
pHemA . pep	101	H	A	K	L	R	V	D	P	V	---	110	N	F	K	L	L	S	H	C	L	120	V	T	L	A	A	H	D	P	A	S	130	F	T	P	A	V	I	A	S	L	140	-	K	W	A	G	V	A	I	A	150	
pHemB . pep	101	H	D	K	L	V	D	P	V	---	110	N	F	R	L	L	G	N	V	L	120	C	V	L	A	H	F	G	E	130	F	T	P	A	V	I	A	S	L	140	-	K	W	A	G	V	A	I	A	150				
hHemA . pep	151	L	I	S	K	R	---	160	L	I	S	K	R	---	170	L	I	S	K	R	---	180	L	I	S	K	R	---	190	L	I	S	K	R	---	200	L	I	S	K	R	---	200											
hHemB . pep	151	L	A	H	K	V	---	160	L	A	H	K	V	---	170	L	A	H	K	V	---	180	L	A	H	K	V	---	190	L	A	H	K	V	---	200	L	A	H	K	V	---	200											
mHemA . pep	151	L	I	S	K	R	---	160	L	I	S	K	R	---	170	L	I	S	K	R	---	180	L	I	S	K	R	---	190	L	I	S	K	R	---	200	L	I	S	K	R	---	200											
mHemB . pep	151	L	A	H	K	V	---	160	L	A	H	K	V	---	170	L	A	H	K	V	---	180	L	A	H	K	V	---	190	L	A	H	K	V	---	200	L	A	H	K	V	---	200											
pHemA . pep	151	L	I	S	K	R	---	160	L	I	S	K	R	---	170	L	I	S	K	R	---	180	L	I	S	K	R	---	190	L	I	S	K	R	---	200	L	I	S	K	R	---	200											
pHemB . pep	151	L	A	H	K	V	---	160	L	A	H	K	V	---	170	L	A	H	K	V	---	180	L	A	H	K	V	---	190	L	A	H	K	V	---	200	L	A	H	K	V	---	200											

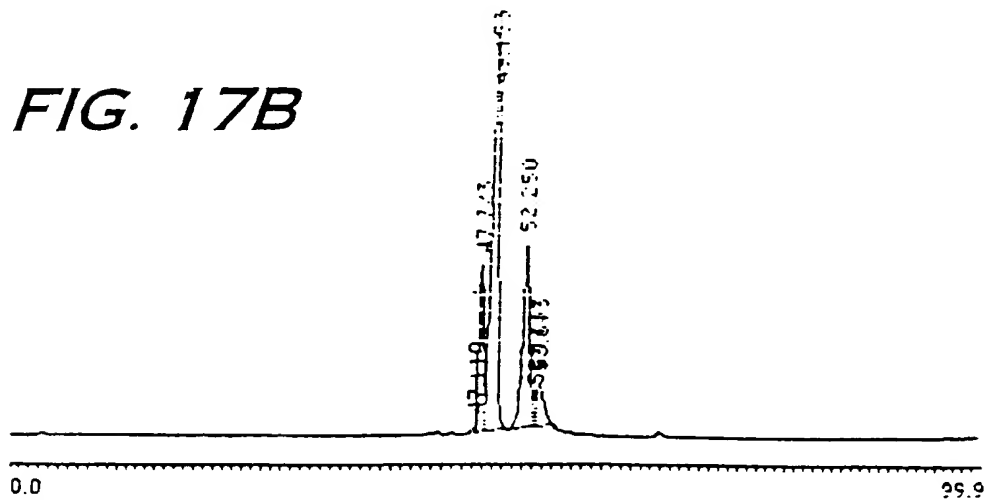
FIG. 17A



Analysis: Channel A

Peak No.	Time	Type	Height(μV)	Area(μV-sec)	Area%
1	48.200	N	1677	20438	1.515
2	52.076	N1	2629	116593	8.631
3	52.510	N2	32010	881490	65.362
4	53.660	N3	10066	330153	24.483
Total Area				1348474	99.998

FIG. 17B



Analysis: Channel A

Peak No.	Time	Type	Height(μV)	Area(μV-sec)	Area%
1	47.110	N1	1727	24840	0.204
2	47.723	N2	75067	1738939	14.321
3	49.153	N3	188795	6206410	51.114
4	52.250	N1	81476	3046748	25.092
5	53.113	N2	13195	202166	1.664
6	53.613	N3	19211	914954	7.535
	65.753	N	813	8066	0.066
Total Area				12142123	99.996

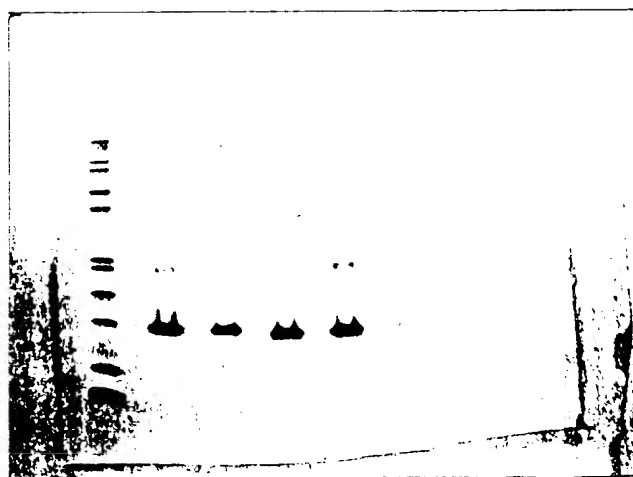


FIG. 18

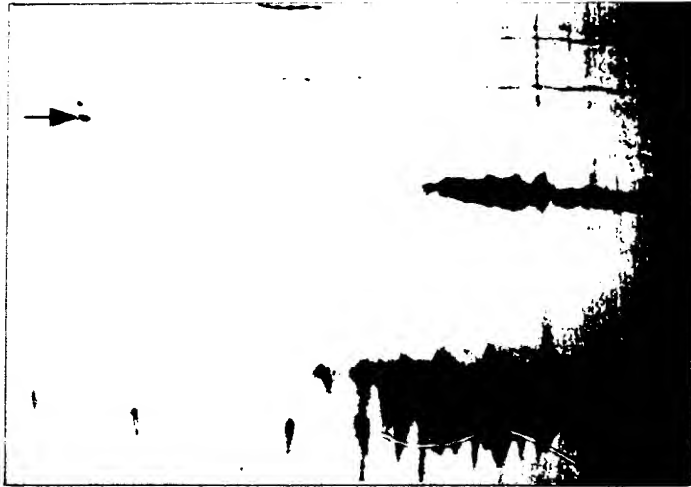


FIG. 19A

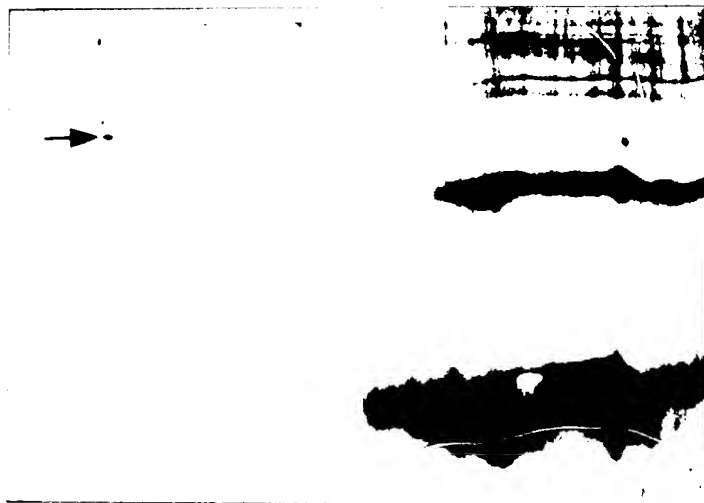


FIG. 19B

FIG. 20

